

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for cleaning a stationary gas turbine unit during operation, said wherein

the unit comprising comprises a turbine, a compressor (16) driven by the turbine, the compressor having an inlet (E), an air inlet duct arranged upstream of the air inlet of the compressor, the inlet duct having a part (15) of the duct adjoining the inlet of the compressor and having decreasing cross section in the flow direction in order to give the air flow a final velocity at the inlet (E) to the compressor (16),

the method comprising introducing a spray of cleaning fluid ~~being introduced~~ in the inlet duct (15), ~~characterised in that wherein~~ the cleaning fluid is forced through a spray nozzle (32) with a pressure drop exceeding 120 bar to form a spray, the drops of ~~which have~~ the spray having a mean size that is less than 150 μm , and directing the spray ~~being directed~~ substantially parallel to and in the same direction as the direction of the air flow, and ~~in that introducing~~ the spray is ~~introduced~~ at a position (23) in the duct section (16) where the air velocity is at least 40 per cent of the final velocity at the compressor inlet, (E), ~~so that whereby~~ the drops of the ~~liquid fluid~~ spray acquire a slip ratio of at least 0.8 at the compressor inlet (E).

2. (Currently Amended) A method as claimed in claim 1, ~~characterised in that wherein~~ the fluid spray is established so that a substantial proportion of its drops have a mean size within the interval 50-150 μm .

3. (Currently Amended) A method as claimed in claim 2, ~~characterised in that wherein~~ the fluid spray drops are given a mean size of around 70 μm .

4. (Currently Amended) A method as claimed in claim 3, wherein ~~any one of claims 1-3,~~
~~characterised in that~~ the fluid spray is established by forcing the cleaning fluid ~~being forced~~
through a spray nozzle with a pressure drop less than 210 Bar.

5. (Currently Amended) A method as claimed in ~~any one of the preceding claims,~~
~~characterised in that~~ claim 3, wherein the fluid spray is established by forcing the cleaning fluid
~~being forced~~ through a nozzle with a pressure drop of around 140 Bar.

6. (Currently Amended) A method as claimed in ~~any one of the preceding claims,~~
~~characterised in that~~ claim 1, wherein the fluid spray drops are caused to acquire a slip ratio of at
least 0.9 at the compressor inlet.

7. (New) A method as claimed in claim 3, wherein the fluid spray is established by
forcing the cleaning fluid through a spray nozzle with a pressure drop less than 210 Bar.